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From: Mertz, Prema  
Sent: Thursday, January 16, 2003 8:05 AM  
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Subject: 09/911,346

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Thanks,

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10D19

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Online time: \_\_\_\_\_

TYPE OF SEARCH:

NA Sequences: \_\_\_\_\_  
AA Sequences: \_\_\_\_\_  
Structures: \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

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Other (specify): \_\_\_\_\_

=> s l3 (5a) (antibod?)

L4 3 L3 (5A) (ANTIBOD?)

=> d l4 1-3 bib ab

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:868518 CAPLUS  
DN 136:4735  
TI A novel polypeptide, a human natural killer cell enhancing factor B13.64  
and the polynucleotide encoding the polypeptide  
IN Mao, Yumin; Xie, Yi  
PA Shanghai Biowindow Gene Development Inc., Peop. Rep. China  
SO PCT Int. Appl., 38 pp.  
CODEN: PIXXD2  
DT Patent  
LA Chinese  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO.  
DATE  
PI WO 2001090177 A1 20011129 WO 2001-CN855  
20010521  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY,  
BZ, CA, CH, CO,  
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE,  
GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT,  
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,  
PL, PT, RO, RU,  
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,  
UZ, VN,  
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW,  
AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,  
TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD,  
TG  
CN 1324837 A 20011205 CN 2000-115801  
20000524  
PRAI CN 2000-115801 A 20000524  
AB The present invention discloses a novel polypeptide, a human  
natural  
killer cell enhancing factor B13.64, the polynucleotide encoding  
the  
polypeptide and the method for producing the polypeptide by  
DNA  
recombinant technol. The invention also discloses the uses of the  
polypeptide in methods for treating various diseases, such as  
malignant  
tumor, hemopathy, development disturbance disease, HIV  
infection, immunol.  
disease and various inflammation etc. The invention also  
discloses the  
agonists against the polypeptide and the therapeutic action thereof.

The  
invention also discloses the uses of the polynucleotide encoding  
the novel  
human natural killer cell enhancing factor B13.64.  
RE.CNT 5 THERE ARE 5 CITED REFERENCES  
AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS  
AN 1997:151433 CAPLUS  
DN 126:153669  
TI Cloning and cDNA sequence of human natural killer cell  
enhancing factor C  
and its diagnostic and therapeutic uses  
IN Ni, Jian; Yu, Guo-Liang; Gentz, Reiner; Rosen, Craig A.  
PA Human Genome Sciences, Inc., USA; Ni, Jian; Yu, Guo-Liang;  
Gentz, Reiner;  
Rosen, Craig A.  
SO PCT Int. Appl., 60 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO.  
DATE  
PI WO 9639424 A1 19961212 WO 1995-US7200  
19950606  
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE,  
DK, ES, FI, GB,  
GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD,  
MG, MN, MW,  
MX, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT,  
UA, US, UZ, VN  
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR,  
GB, GR, IE, IT,  
LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN,  
ML, MR, NE,  
SN, TD, TG  
AU 9528186 A1 19961224 AU 1995-28186  
19950606  
PRAI WO 1995-US7200 19950606  
AB The cDNA sequence and the corresponding deduced amino acid  
sequence of  
protein putatively identified as a natural killer cell enhancing  
factor  
(NKEF C) are provided. The cDNA was discovered in a cDNA  
library derived  
from cycloheximide-treated CEM cells. It is highly expressed in  
heart,  
liver, skeletal muscle, pancreas, testis, and ovary; moderately  
expressed  
in placenta, lung, prostate, small intestine, and colon; and lowly  
expressed in brain, spleen, thymus, and peripheral blood  
leukocyte. It is  
structurally related to a family of highly conserved oxidative stress  
genes. It contains an open reading frame encoding a protein of  
271 amino  
acid residues, of which approx. the first 30 amino acid residues  
are the  
putative leader sequence such that the mature protein comprises

241 amino acids. The protein exhibits the highest degree of homol. to NKEF B expressed from NK-sensitive erythroleukemia cell line K562 with 68.182% identity and 83.333% similarity over the entire amino acid stretch. Recombinant techniques for expression of NKEF C are described, including (1) bacterial expression using the Escherichia coli expression vector pQE-9, (2) expression in COS cells using the pcDNA1/Amp vector, (3) cloning and expression using the baculovirus expression system with the pA2 vector (a modification of the pVL941 vector) in Sf9 cells, and (4) expression via gene therapy with the pMV-7 vector based on the Moloney murine sarcoma virus backbone. Diagnostic methods for detecting a mutation in the NKEF C nucleic acid sequence and detecting altered levels of polypeptide for detecting diseases are also disclosed. NKEF C exhibits growth inhibitory effects against human leukemia cells and antiviral activity against vesicular stomatitis virus. It can be used for preventing and/or treating viral infections, inflammation, neoplasia, and damage from superoxide radicals.

L4 ANSWER 3 OF 3 USPATFULL  
 AN 97:20653 USPATFULL  
 TI DNA's encoding natural killer cell enhancing factor  
 IN Shau, Hungyi, Cerritos, CA, United States  
 Golub, Sidney H., Los Angeles, CA, United States  
 PA The Regents Of The University Of California, Oakland, CA, United States  
 (U.S. corporation)  
 PI US 5610286 19970311  
 AI US 1994-299162 19940831 (8)  
 RLI Continuation-in-part of Ser. No. US 1994-232189, filed on 3 May 1994,  
 now abandoned which is a continuation-in-part of Ser. No. US 1991-787148, filed on 4 Nov 1991, now patented, Pat. No. US 5250295  
 DT Utility  
 FS Granted  
 EXNAM Primary Examiner: Ulm, John; Assistant Examiner: Mertz, Prema  
 LREP Poms, Smith, Lande & Rose  
 CLMN Number of Claims: 2  
 ECL Exemplary Claim: 1  
 DRWN 3 Drawing Figure(s); 3 Drawing Page(s)  
 LN.CNT 1323  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB Recombinant DNA molecules comprising a DNA sequence encoding either NKEF (Natural Killer Enhancing Factor) A or B or their amino acid sequence variants. Essentially pure natural killer enhancing factor comprising the amino acid sequence of NKEF A or B or their amino acid sequence variants. Compositions of matter for use in enhancing the activity of natural killer cells; the composition comprising an anchor moiety to which is linked either NKEF A or B or their amino acid sequence variants. Methods for enhancing the in vivo activity of natural killer

cells; the methods comprising introducing in vivo a sufficient amount of either NKEF A or B or their amino acid sequence variants linked to an anchor moiety. In a method for inducing leukocyte activation and proliferation wherein the leukocytes are treated with a cytokine the improvement comprising treating the leukocytes with the cytokine in the presence of NKEF A or B or their amino acid sequence variants.

=> d his

(FILE 'HOME' ENTERED AT 12:10:29 ON 16 JAN 2003)

FILE 'MEDLINE, CAPLUS, USPATFULL' ENTERED AT 12:10:50 ON 16 JAN 2003  
 L1 0 S KILLER CELL ENHANCING FACTOR#  
 L2 39 S KILLER CELL ENHANCING FACTOR  
 L3 40 S KILLER CELL ENHANCING FACTOR#  
 L4 3 S L3 (5A) (ANTIBOD?)